OPTIMUS®

Cat. No. 12-603A B

AM•FM Portable Radio

Your Optimus AM•FM Portable Radio lets you enjoy music, sports, and news almost anywhere.

Its features include:

Bass and Treble Controls — let you adjust the sound to suit your tastes.

Bandwidth Switch — lets you improve audio fidelity when listening to strong stations.

Sensitive Tuned RF Receiver — lets you receive distant AM stations with good quality reception.

Built-In 5-Inch Speaker and $1^1/_2$-Inch Tweeter — provide great sound.

Telescoping Antenna — for excellent FM reception.

Built-In AM Antenna — lets you enjoy great AM reception anywhere.

Switchable Automatic Frequency Control (AFC) — ensures drift-free FM reception.

External Antenna Terminals — let you connect an external antenna for even better reception.

Earphone Jack — lets you connect an earphone so you can listen without disturbing others.

WARNING: To reduce the risk of fire or shock hazard, do not expose this product to rain or moisture.

CAUTION

RISK OF ELECTRIC SHOCK. DO NOT OPEN.

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER OR BACK. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.

This symbol is intended to alert you to the presence of uninsulated dangerous voltage within the product's enclosure that might be of sufficient magnitude to constitute a risk of electric shock. Do not open the product's case.

This symbol is intended to inform you that important operating and maintenance instructions are included in the literature accompanying this product.

CONNECTING POWER

You can power your radio from six D batteries (not supplied) or from standard AC power.

Using Batteries

You can use six D batteries to power the radio. We recommend RadioShack alkaline batteries. Follow these steps to install batteries.

1. Remove the battery compartment cover by pushing in the cover's two tabs then pulling the cover in the direction of the arrows.
2. Install six D batteries in the lower level of the compartment, as indicated by the polarity symbols (+ and –) marked inside the battery compartment.
3. Replace the cover.
4. Set **AC/DC** to **DC**.

Caution: Remove the batteries if you do not plan to use batteries in the radio for a week or more. Batteries can leak chemicals and damage the radio.

When the sound becomes weak or distorted, replace the old batteries with fresh ones.

Using AC Power

Follow these steps to power your radio using AC power.

1. Remove the battery compartment cover by pushing in the cover's two tabs then pulling the cover in the direction of the arrows.
2. Pull out the power cord from the upper level of the compartment.
3. Route the power cord through the slot on the battery compartment cover and replace the cover.
4. Set **AC/DC** to **AC**.
5. Plug the power cord into any standard AC outlet.

   Caution: To prevent electric shock, one plug blade is wider than the other and the plug only fits one way. If you cannot easily insert the plug, turn it over and try again. Do not force it.

CONNECTING AN EXTERNAL ANTENNA

For Better AM Reception:

Your radio has a built-in AM antenna for reception of strong, local broadcasts. For improved reception, you can connect an external AM antenna. Your local RadioShack store has a wide selection of AM antennas.

To connect an external AM antenna to your radio, use a Phillips screwdriver to loosen the screw on the external antenna terminal, slide the external antenna's spade lugs underneath the screw head, then tighten the screw.

For Better FM Reception:

Your radio has a telescoping antenna for FM reception.

Note: When you use the telescoping antenna for FM reception, be sure the metal strap is connected as shown.

For improved reception, you can connect an external FM antenna. Your local RadioShack store has a wide selection of FM antennas.

Follow these steps to connect an external FM antenna to your radio.

1. Use a Phillips screwdriver to loosen the screws on the external antenna terminals.
   - For an FM 75-ohm cable:

- For an FM 300-ohm cable:

2. Slide the external antenna's spade lugs underneath the screw heads, then tighten the screws.

   Note: When you attach an external FM antenna, be sure the metal strap under the screw head connecting the telescoping antenna is positioned correctly.

OPERATING THE RADIO

Warning: To protect your hearing, turn **VOLUME** to its lowest setting before you turn on the radio.

1. Push in **POWER** to **ON**.
2. Set **BAND** to **FM** or **AM**.
3. Rotate the tuning knob to select the desired station.

Notes:

- To precisely tune to a weak FM station using automatic frequency control, slide **AFC** to **OFF**. Rotate the tuning knob to select the desired station, then slide **AFC** to **ON** for drift-free reception.
- To get better audio fidelity when selecting a strong station, slide **BANDWIDTH** to **WIDE**. If you hear whistling noises, slide **BANDWIDTH** to **NORMAL** to get better selectivity.

- For the best FM reception, extend the telescoping antenna to its full length.
- For AM stations, rotate the radio to the position that provides the best reception.

4. Adjust **VOLUME**, **BASS**, and **TREBLE** for the best sound.
5. To turn off the radio, push **POWER** to **OFF**.

Using an Earphone

For private listening, plug a monaural earphone (not supplied) with a 1/8-inch plug into the **EAR** jack on the right of the radio. This automatically disconnects the built-in speaker.

Your local RadioShack store carries a wide selection of earphones.

Listening Safely

To protect your hearing, follow these guidelines when you use an earphone.

- Set the volume to the lowest level before you begin listening. After you begin listening, adjust the volume to a comfortable listening level.
- Do not listen at extremely high volume levels. Extended high-volume listening can lead to permanent hearing loss.
- Once you set the volume, do not increase it. Over time, your ears adapt to the volume level, so a volume level that does not cause discomfort might still damage your hearing.

Traffic Safety

Do not wear an earphone while operating a motor vehicle or riding a bicycle. This can cause a traffic hazard and is illegal in some areas.

Even though some earphones let you hear outside sounds when listening at normal volume levels, they still can present a traffic hazard.

CARE AND MAINTENANCE

Your Optimus AM•FM Portable Radio is an example of superior design and craftsmanship. The following suggestions will help you care for the radio so you can enjoy it for years.

- Keep the radio dry. If it gets wet, wipe it dry immediately. Liquids might contain minerals that can corrode the electronic circuits.
- Use and store the radio only in normal temperature environments. Temperature extremes can shorten the life of electronic devices, damage batteries, and distort or melt plastic parts.
- Keep the radio away from dust and dirt, which can cause premature wear of parts.
- Handle the radio gently and carefully. Dropping it can damage circuit boards and cases and can cause the radio to work improperly.
- Use only fresh batteries of the required size and type. Old batteries can leak chemicals that damage your radio's electronic parts.
- Wipe the radio with a damp cloth occasionally to keep it looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the radio.

Modifying or tampering with the radio's internal components can cause a malfunction and might invalidate your radio's warranty and void your FCC authorization to operate it. If your radio is not performing as it should, take it to your local RadioShack store for assistance.

The FCC Wants You to Know

Your radio might cause TV or radio interference even when it is operating properly. To determine whether your radio is causing interference, turn it off. If the interference goes away, your radio is causing it. Try to eliminate the interference by:

- Moving your radio away from the receiver
- Connecting your radio to an outlet that is on a different electrical circuit from the receiver
- Contacting a radio/TV technician or your local RadioShack store for help

If you cannot eliminate the interference, the FCC requires that you stop using your radio.

SPECIFICATIONS

Frequency Range	AM 530–1710 kHz FM 88–108 MHz
Intermediate Frequency	AM 455 kHz FM 10.7 MHz
Power Requirements	120V AC, 60 Hz, 5W 9V DC (6 ×1.5V D-cells)
Power Output	Maximum – 800 mW 10% THD – 700 mW
Headphone Impedance	8 Ohm
Speakers	5-inch (127 mm) 8 Ohm $1^{1}/_{2}$-inch (38 mm) 8 Ohm
Antennas	Ferrite Bar Antenna for AM Telescoping Antenna for FM
Dimensions (HWD)	$9^{1}/_{16} \times 12^{11}/_{16} \times 3^{9}/_{16}$ Inches (230 × 324 × 91 mm)
Weight (without batteries)	4 lbs 14 oz (2.2 kg)

Specifications are typical; individual units might vary. Specifications are subject to change and improvement without notice.

Limited Ninety-Day Warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for ninety (90) days from the date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RadioShack HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow the limitations on how long an implied warranty lasts or the exclusion of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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We Service What We Sell *04/99*

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